

# Ipswich

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	8.30	7	84	Male	5.57	7	126
Female	3.58	6	168	Female	4.47	7	157
Total	11.87	13	109	Total	10.04	14	139
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	2.46	1	NC*	Male	1.65	0	NC*
Female	2.10	6	286 #+	Female	1.59	0	NC*
Total	4.55	7	154	Total	3.24	0	NC*
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	0.40	1	NC*	Male	6.66	7	105
Female	55.05	67	122	Female	6.60	9	136
Total	55.45	68	123	Total	13.26	16	121
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
Female	2.91	4	NC*	Male	5.33	3	NC*
				Female	2.76	1	NC*
				Total	8.09	4	NC*
<b><u>Colon / Rectum</u></b>				<b><u>Ovary</u></b>			
Male	20.64	24	116	Female	6.34	7	110
Female	22.44	31	138				
Total	43.08	55	128				
<b><u>Esophagus</u></b>				<b><u>Pancreas</u></b>			
Male	3.05	1	NC*	Male	3.51	5	142
Female	1.09	0	NC*	Female	4.13	6	145
Total	4.14	1	NC*	Total	7.64	11	144
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			
Male	1.16	2	NC*	Male	52.41	66	126
Female	0.94	2	NC*				
Total	2.11	4	NC*				
<b><u>Kidney and Renal Pelvis</u></b>				<b><u>Stomach</u></b>			
Male	5.00	6	120	Male	3.50	8	228
Female	3.36	3	NC*	Female	2.43	0	NC*
Total	8.36	9	108	Total	5.94	8	135
<b><u>Larynx</u></b>				<b><u>Testis</u></b>			
Male	2.88	3	NC*	Male	1.69	0	NC*
Female	0.77	0	NC*				
Total	3.65	3	NC*				
<b><u>Leukemia</u></b>				<b><u>Thyroid</u></b>			
Male	3.87	5	129	Male	1.08	0	NC*
Female	3.33	4	NC*	Female	2.89	1	NC*
Total	7.21	9	125	Total	3.97	1	NC*
<b><u>Liver and Intrahepatic Bile Ducts</u></b>				<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Male	1.94	6	310 #+	Female	10.73	11	103
Female	0.89	1	NC*				
Total	2.83	7	247				
<b><u>Lung and Bronchus</u></b>				<b><u>All Sites / Types</u></b>			
Male	26.60	18	68	Male	168.86	183	108
Female	23.22	29	125	Female	174.53	208	119 #+
Total	49.82	47	94	Total	343.39	391	114 #+

Exp = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Kingston

### Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	6.45	9	139	Male	4.34	4	NC*
Female	2.36	5	212	Female	3.35	6	179
Total	8.82	14	159	Total	7.69	10	130
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	1.95	1	NC*	Male	1.27	0	NC*
Female	1.61	0	NC*	Female	1.10	0	NC*
Total	3.56	1	NC*	Total	2.37	0	NC*
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	0.31	0	NC*	Male	5.24	3	NC*
Female	40.29	50	124	Female	4.65	5	107
Total	40.60	50	123	Total	9.89	8	81
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
Female	2.30	2	NC*	Male	4.11	4	NC*
				Female	1.96	1	NC*
				Total	6.07	5	82
<b><u>Colon / Rectum</u></b>				<b><u>Ovary</u></b>			
Male	15.99	21	131	Female	4.70	3	NC*
Female	14.78	15	101				
Total	30.78	36	117				
<b><u>Esophagus</u></b>				<b><u>Pancreas</u></b>			
Male	2.34	2	NC*	Male	2.72	3	NC*
Female	0.72	1	NC*	Female	2.74	2	NC*
Total	3.06	3	NC*	Total	5.46	5	92
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			
Male	0.96	2	NC*	Male	39.66	47	118
Female	0.78	1	NC*				
Total	1.74	3	NC*				
<b><u>Kidney and Renal Pelvis</u></b>				<b><u>Stomach</u></b>			
Male	3.86	6	156	Male	2.74	1	NC*
Female	2.40	3	NC*	Female	1.59	2	NC*
Total	6.25	9	144	Total	4.33	3	NC*
<b><u>Larynx</u></b>				<b><u>Testis</u></b>			
Male	2.19	2	NC*	Male	1.40	3	NC*
Female	0.56	1	NC*				
Total	2.76	3	NC*				
<b><u>Leukemia</u></b>				<b><u>Thyroid</u></b>			
Male	3.09	4	NC*	Male	0.86	2	NC*

Female	2.39	1	NC*
Total	5.47	5	91

#### Liver and Intrahepatic Bile Ducts

Male	1.49	1	NC*
Female	0.61	0	NC*
Total	2.10	1	NC*

#### Lung and Bronchus

Male	20.28	27	133
Female	16.45	17	103
Total	36.73	44	120

Female	2.35	5	213
Total	3.21	7	218

#### Uteri, Corpus and Uterus, NOS

Female	7.84	8	102
--------	------	---	-----

#### All Sites / Types

Male	130.08	149	115
Female	124.28	135	109
Total	254.36	284	112

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Lakeville

### Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>			
Male	5.02	4	NC*
Female	1.93	2	NC*
Total	6.95	6	86

#### **Brain and Other Central Nervous System**

Male	1.78	1	NC*
Female	1.37	4	NC*
Total	3.15	5	159

#### **Breast**

Male	0.25	0	NC*
Female	34.99	36	103
Total	35.24	36	102

#### **Cervix Uteri**

Female	2.02	2	NC*
--------	------	---	-----

#### **Colon / Rectum**

Male	12.70	14	110
Female	12.06	12	100
Total	24.76	26	105

#### **Esophagus**

Male	2.03	3	NC*
Female	0.58	0	NC*
Total	2.61	3	NC*

#### **Hodgkin's Disease (Hodgkin Lymphoma)**

Male	0.90	1	NC*
Female	0.66	2	NC*

#### **Melanoma of Skin**

Male	3.81	5	131
Female	2.90	4	NC*
Total	6.71	9	134

#### **Multiple Myeloma**

Male	1.05	2	NC*
Female	0.91	1	NC*
Total	1.96	3	NC*

#### **Non-Hodgkin('s) Lymphoma**

Male	4.49	5	111
Female	3.87	8	207
Total	8.36	13	155

#### **Oral Cavity and Pharynx**

Male	3.72	4	NC*
Female	1.68	1	NC*
Total	5.40	5	93

#### **Ovary**

Female	4.07	2	NC*
--------	------	---	-----

#### **Pancreas**

Male	2.24	1	NC*
Female	2.23	0	NC*
Total	4.47	1	NC*

#### **Prostate**

Male	33.99	35	103
------	-------	----	-----

Total	1.57	3	NC*
<b><u>Kidney and Renal Pelvis</u></b>			
Male	3.37	4	NC*
Female	2.02	1	NC*
Total	5.39	5	93
<b><u>Larynx</u></b>			
Male	1.96	3	NC*
Female	0.48	1	NC*
Total	2.44	4	NC*
<b><u>Leukemia</u></b>			
Male	2.58	2	NC*
Female	2.02	1	NC*
Total	4.60	3	NC*
<b><u>Liver and Intrahepatic Bile Ducts</u></b>			
Male	1.31	1	NC*
Female	0.50	0	NC*
Total	1.80	1	NC*
<b><u>Lung and Bronchus</u></b>			
Male	16.92	19	112
Female	13.64	11	81
Total	30.57	30	98

<b><u>Stomach</u></b>			
Male	2.19	0	NC*
Female	1.30	0	NC*
Total	3.49	0	NC*
<b><u>Testis</u></b>			
Male	1.37	1	NC*
<b><u>Thyroid</u></b>			
Male	0.82	0	NC*
Female	2.07	2	NC*
Total	2.89	2	NC*
<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Female	6.79	5	74
<b><u>All Sites / Types</u></b>			
Male	109.68	114	104
Female	105.41	104	99
Total	215.10	218	101

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Lancaster

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<b><u>Exp</u></b>	<b><u>Obs</u></b>	<b><u>SIR</u></b>
<b><u>Bladder, Urinary</u></b>			
Male	4.02	4	NC*
Female	1.39	2	NC*
Total	5.41	6	111
<b><u>Brain and Other Central Nervous System</u></b>			
Male	1.39	2	NC*
Female	1.01	1	NC*
Total	2.40	3	NC*
<b><u>Breast</u></b>			
Male	0.20	0	NC*
Female	24.52	19	77
Total	24.72	19	77
<b><u>Cervix Uteri</u></b>			
Female	1.54	1	NC*

	<b><u>Exp</u></b>	<b><u>Obs</u></b>	<b><u>SIR</u></b>
<b><u>Melanoma of Skin</u></b>			
Male	3.00	2	NC*
Female	2.14	2	NC*
Total	5.14	4	NC*
<b><u>Multiple Myeloma</u></b>			
Male	0.82	0	NC*
Female	0.64	0	NC*
Total	1.45	0	NC*
<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	3.58	2	NC*
Female	2.79	1	NC*
Total	6.37	3	NC*
<b><u>Oral Cavity and Pharynx</u></b>			
Male	2.80	5	178
Female	1.18	1	NC*
Total	3.98	6	151

**Colon / Rectum**

Male	10.11	7	69
Female	8.70	9	103
Total	18.81	16	85

**Esophagus**

Male	1.54	2	NC*
Female	0.42	0	NC*
Total	1.96	2	NC*

**Hodgkin's Disease (Hodgkin Lymphoma)**

Male	0.77	2	NC*
Female	0.54	0	NC*
Total	1.31	2	NC*

**Kidney and Renal Pelvis**

Male	2.58	3	NC*
Female	1.42	2	NC*
Total	4.00	5	125

**Larynx**

Male	1.47	0	NC*
Female	0.32	0	NC*
Total	1.79	0	NC*

**Leukemia**

Male	2.05	5	244
Female	1.49	1	NC*
Total	3.54	6	170

**Liver and Intrahepatic Bile Ducts**

Male	1.00	0	NC*
Female	0.36	1	NC*
Total	1.35	1	NC*

**Lung and Bronchus**

Male	13.14	7	53
Female	9.35	5	53
Total	22.49	12	53 #-

**Ovary**

Female	2.90	3	NC*
--------	------	---	-----

**Pancreas**

Male	1.74	0	NC*
Female	1.60	2	NC*
Total	3.34	2	NC*

**Prostate**

Male	25.88	11	43 ~-
------	-------	----	-------

**Stomach**

Male	1.74	0	NC*
Female	0.96	1	NC*
Total	2.70	1	NC*

**Testis**

Male	1.25	0	NC*
------	------	---	-----

**Thyroid**

Male	0.66	0	NC*
Female	1.62	3	NC*
Total	2.28	3	NC*

**Uteri, Corpus and Uterus, NOS**

Female	4.63	3	NC*
--------	------	---	-----

**All Sites / Types**

Male	85.52	53	62 ^-
Female	74.85	63	84
Total	160.37	116	72 ^-

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Lanesborough

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	2.50	0	NC*	Male	1.64	0	NC*
Female	0.77	0	NC*	Female	1.06	0	NC*
Total	3.28	0	NC*	Total	2.70	0	NC*
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			

Male	0.71	0	NC*	Male	0.49	0	NC*
Female	0.51	2	NC*	Female	0.36	0	NC*
Total	1.22	2	NC*	Total	0.85	0	NC*
<b>Breast</b>				<b>Non-Hodgkin('s) Lymphoma</b>			
Male	0.12	0	NC*	Male	1.97	4	NC*
Female	13.07	6	46 #-	Female	1.51	2	NC*
Total	13.19	6	45 #-	Total	3.48	6	172
<b>Cervix Uteri</b>				<b>Oral Cavity and Pharynx</b>			
Female	0.72	0	NC*	Male	1.56	0	NC*
				Female	0.64	0	NC*
				Total	2.20	0	NC*
<b>Colon / Rectum</b>				<b>Ovary</b>			
Male	6.21	3	NC*	Female	1.52	1	NC*
Female	4.84	1	NC*				
Total	11.05	4	NC*				
<b>Esophagus</b>				<b>Pancreas</b>			
Male	0.90	0	NC*	Male	1.05	2	NC*
Female	0.24	1	NC*	Female	0.90	3	NC*
Total	1.14	1	NC*	Total	1.96	5	256
<b>Hodgkin's Disease (Hodgkin Lymphoma)</b>				<b>Prostate</b>			
Male	0.34	0	NC*	Male	15.56	6	39 #-
Female	0.23	0	NC*				
Total	0.57	0	NC*				
<b>Kidney and Renal Pelvis</b>				<b>Stomach</b>			
Male	1.46	0	NC*	Male	1.06	0	NC*
Female	0.78	0	NC*	Female	0.52	0	NC*
Total	2.25	0	NC*	Total	1.57	0	NC*
<b>Larynx</b>				<b>Testis</b>			
Male	0.84	2	NC*	Male	0.49	1	NC*
Female	0.19	0	NC*				
Total	1.03	2	NC*				
<b>Leukemia</b>				<b>Thyroid</b>			
Male	1.14	1	NC*	Male	0.31	0	NC*
Female	0.76	0	NC*	Female	0.72	1	NC*
Total	1.90	1	NC*	Total	1.03	1	NC*
<b>Liver and Intrahepatic Bile Ducts</b>				<b>Uteri, Corpus and Uterus, NOS</b>			
Male	0.57	0	NC*	Female	2.57	3	NC*
Female	0.20	0	NC*				
Total	0.77	0	NC*				
<b>Lung and Bronchus</b>				<b>All Sites / Types</b>			
Male	7.90	3	NC*	Male	50.17	24	48 ^-
Female	5.43	4	NC*	Female	40.37	24	59 ~-
Total	13.33	7	53	Total	90.54	48	53 ^-

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Lawrence

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	36.19	25	69	Male	23.88	5	21 ^-
Female	16.62	16	96	Female	21.11	6	28 ^-
Total	52.81	41	78	Total	44.99	11	24 ^-
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	11.34	4	NC*	Male	6.87	4	NC*
Female	10.47	7	67	Female	7.15	3	NC*
Total	21.80	11	50 #-	Total	14.02	7	50
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	1.65	1	NC*	Male	29.66	25	84
Female	241.97	156	64 ^-	Female	30.92	19	61 #-
Total	243.62	157	64 ^-	Total	60.58	44	73 #-
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
Female	14.20	27	190 ~+	Male	21.27	27	127
				Female	12.38	17	137
				Total	33.65	44	131
<b><u>Colon / Rectum</u></b>				<b><u>Ovary</u></b>			
Male	89.13	92	103	Female	28.61	33	115
Female	104.99	72	69 ^-				
Total	194.12	164	84 #-				
<b><u>Esophagus</u></b>				<b><u>Pancreas</u></b>			
Male	12.23	14	114	Male	14.79	10	68
Female	5.09	6	118	Female	19.03	14	74
Total	17.32	20	115	Total	33.82	24	71
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			
Male	6.22	8	129	Male	209.76	197	94
Female	5.39	3	NC*				
Total	11.62	11	95				
<b><u>Kidney and Renal Pelvis</u></b>				<b><u>Stomach</u></b>			
Male	20.56	11	53 #-	Male	15.17	20	132
Female	15.11	16	106	Female	11.55	15	130
Total	35.68	27	76	Total	26.71	35	131
<b><u>Larynx</u></b>				<b><u>Testis</u></b>			
Male	11.28	15	133	Male	9.80	7	71
Female	3.25	6	185				
Total	14.53	21	145				
<b><u>Leukemia</u></b>				<b><u>Thyroid</u></b>			
Male	18.09	14	77	Male	4.88	2	NC*
Female	16.45	10	61	Female	14.82	12	81
Total	34.54	24	69	Total	19.70	14	71
<b><u>Liver and Intrahepatic Bile Ducts</u></b>				<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Male	7.93	7	88	Female	45.67	44	96
Female	4.15	5	120				
Total	12.08	12	99				
<b><u>Lung and Bronchus</u></b>				<b><u>All Sites / Types</u></b>			
Male	109.83	100	91	Male	711.41	620	87 ^-
Female	102.15	88	86	Female	792.32	632	80 ^-

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Lee

### Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	4.42	3	NC*	Male	2.81	1	NC*
Female	1.61	0	NC*	Female	1.95	1	NC*
Total	6.03	3	NC*	Total	4.76	2	NC*
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	1.22	1	NC*	Male	0.85	1	NC*
Female	0.93	0	NC*	Female	0.72	1	NC*
Total	2.16	1	NC*	Total	1.57	2	NC*
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	0.21	0	NC*	Male	3.40	2	NC*
Female	24.25	32	132	Female	2.97	2	NC*
Total	24.46	32	131	Total	6.37	4	NC*
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
Female	1.25	0	NC*	Male	2.64	4	NC*
<b><u>Colon / Rectum</u></b>				Female	1.23	1	NC*
Male	10.96	5	46	Total	3.87	5	129
Female	10.11	13	129	<b><u>Ovary</u></b>			
Total	21.08	18	85	Female	2.79	2	NC*
<b><u>Esophagus</u></b>				<b><u>Pancreas</u></b>			
Male	1.56	2	NC*	Male	1.84	2	NC*
Female	0.50	0	NC*	Female	1.87	2	NC*
Total	2.05	2	NC*	Total	3.71	4	NC*
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			
Male	0.58	0	NC*	Male	27.50	16	58 #-
Female	0.41	0	NC*	<b><u>Stomach</u></b>			
Total	0.99	0	NC*	Male	1.84	1	NC*
<b><u>Kidney and Renal Pelvis</u></b>				Female	1.09	1	NC*
Male	2.52	6	238	Total	2.93	2	NC*
Female	1.51	1	NC*	<b><u>Testis</u></b>			
Total	4.03	7	174	Male	0.84	1	NC*
<b><u>Larynx</u></b>							
Male	1.45	2	NC*				
Female	0.35	1	NC*				
Total	1.80	3	NC*				



**Leukemia**

Male	1.99	1	NC*
Female	1.48	2	NC*
Total	3.46	3	NC*

**Liver and Intrahepatic Bile Ducts**

Male	0.98	0	NC*
Female	0.40	1	NC*
Total	1.39	1	NC*

**Lung and Bronchus**

Male	13.97	18	129
Female	10.59	10	94
Total	24.56	28	114

**Thyroid**

Male	0.53	0	NC*
Female	1.23	1	NC*
Total	1.76	1	NC*

**Uteri, Corpus and Uterus, NOS**

Female	4.76	7	147
--------	------	---	-----

**All Sites / Types**

Male	87.94	76	86
Female	77.75	88	113
Total	165.69	164	99

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

**Leicester****Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999**

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	5.98	7	117	Male	4.16	1	NC*
Female	2.11	2	NC*	Female	3.09	5	162
Total	8.10	9	111	Total	7.25	6	83
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	1.92	3	NC*	Male	1.18	1	NC*
Female	1.52	3	NC*	Female	0.99	1	NC*
Total	3.45	6	174	Total	2.17	2	NC*
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	0.29	0	NC*	Male	5.02	6	119
Female	36.53	32	88	Female	4.25	1	NC*
Total	36.81	32	87	Total	9.28	7	75
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
Female	2.17	5	230	Male	3.87	4	NC*
				Female	1.78	1	NC*
				Total	5.65	5	89
<b><u>Colon / Rectum</u></b>				<b><u>Ovary</u></b>			
Male	14.91	16	107	Female	4.31	4	NC*
Female	13.20	12	91				
Total	28.12	28	100				
<b><u>Esophagus</u></b>				<b><u>Pancreas</u></b>			
Male	2.19	2	NC*	Male	2.53	2	NC*
Female	0.64	0	NC*	Female	2.46	3	NC*
Total	2.83	2	NC*	Total	5.00	5	100
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			

Male	1.01	2	NC*	Male	37.35	30	80
Female	0.77	0	NC*				
Total	1.77	2	NC*				
<b><u>Kidney and Renal Pelvis</u></b>				<b><u>Stomach</u></b>			
Male	3.64	3	NC*	Male	2.54	4	NC*
Female	2.18	3	NC*	Female	1.42	2	NC*
Total	5.82	6	103	Total	3.96	6	152
<b><u>Larynx</u></b>				<b><u>Testis</u></b>			
Male	2.06	2	NC*	Male	1.56	2	NC*
Female	0.51	1	NC*				
Total	2.57	3	NC*				
<b><u>Leukemia</u></b>				<b><u>Thyroid</u></b>			
Male	2.96	2	NC*	Male	0.86	0	NC*
Female	2.20	3	NC*	Female	2.25	4	NC*
Total	5.16	5	97	Total	3.11	4	NC*
<b><u>Liver and Intrahepatic Bile Ducts</u></b>				<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Male	1.41	1	NC*				
Female	0.55	0	NC*	Female	7.08	6	85
Total	1.96	1	NC*				
<b><u>Lung and Bronchus</u></b>				<b><u>All Sites / Types</u></b>			
Male	19.08	9	47 #-	Male	122.89	103	84
Female	14.98	15	100	Female	112.87	111	98
Total	34.06	24	70	Total	235.76	214	91

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Lenox

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<b><u>Exp</u></b>	<b><u>Obs</u></b>	<b><u>SIR</u></b>		<b><u>Exp</u></b>	<b><u>Obs</u></b>	<b><u>SIR</u></b>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	3.87	4	NC*	Male	2.43	3	NC*
Female	1.91	1	NC*	Female	2.03	2	NC*
Total	5.78	5	86	Total	4.46	5	112
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	1.04	1	NC*	Male	0.75	1	NC*
Female	0.92	1	NC*	Female	0.79	0	NC*
Total	1.96	2	NC*	Total	1.54	1	NC*
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	0.18	0	NC*	Male	2.93	5	170
Female	25.07	31	124	Female	3.21	5	156
Total	25.25	31	123	Total	6.15	10	163
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
				Male	2.32	2	NC*

Female	1.22	0	NC*
<b><u>Colon / Rectum</u></b>			
Male	9.57	11	115
Female	12.02	24	200 ~+
Total	21.60	35	162 ~+
<b><u>Esophagus</u></b>			
Male	1.37	1	NC*
Female	0.59	2	NC*
Total	1.96	3	NC*
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>			
Male	0.46	2	NC*
Female	0.39	3	NC*
Total	0.85	5	586 ~+
<b><u>Kidney and Renal Pelvis</u></b>			
Male	2.21	4	NC*
Female	1.59	1	NC*
Total	3.79	5	132
<b><u>Larynx</u></b>			
Male	1.27	2	NC*
Female	0.34	1	NC*
Total	1.61	3	NC*
<b><u>Leukemia</u></b>			
Male	1.72	1	NC*
Female	1.65	0	NC*
Total	3.37	1	NC*
<b><u>Liver and Intrahepatic Bile Ducts</u></b>			
Male	0.86	3	NC*
Female	0.46	0	NC*
Total	1.32	3	NC*
<b><u>Lung and Bronchus</u></b>			
Male	12.16	10	82
Female	10.81	11	102
Total	22.96	21	91

Female	1.32	1	NC*
Total	3.64	3	NC*
<b><u>Ovary</u></b>			
Female	2.84	3	NC*
<b><u>Pancreas</u></b>			
Male	1.61	1	NC*
Female	2.17	3	NC*
Total	3.78	4	NC*
<b><u>Prostate</u></b>			
Male	23.90	29	121
<b><u>Stomach</u></b>			
Male	1.62	2	NC*
Female	1.34	1	NC*
Total	2.96	3	NC*
<b><u>Testis</u></b>			
Male	0.63	0	NC*
<b><u>Thyroid</u></b>			
Male	0.44	1	NC*
Female	1.17	2	NC*
Total	1.61	3	NC*
<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Female	4.81	5	104
<b><u>All Sites / Types</u></b>			
Male	76.38	92	120
Female	83.39	101	121
Total	159.77	193	121 #+

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Leominster

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	23.72	23	97	Male	16.40	6	37 ~-
Female	9.87	9	91	Female	13.41	3	NC*

Total	33.59	32	95
<b><u>Brain and Other Central Nervous System</u></b>			
Male	7.54	1	NC*
Female	6.39	9	141
Total	13.93	10	72
<b><u>Breast</u></b>			
Male	1.12	1	NC*
Female	156.46	138	88
Total	157.59	139	88
<b><u>Cervix Uteri</u></b>			
Female	9.27	12	129
<b><u>Colon / Rectum</u></b>			
Male	59.12	71	120
Female	62.11	63	101
Total	121.24	134	111
<b><u>Esophagus</u></b>			
Male	8.55	8	94
Female	3.02	1	NC*
Total	11.57	9	78
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>			
Male	4.05	2	NC*
Female	3.29	0	NC*
Total	7.34	2	NC*
<b><u>Kidney and Renal Pelvis</u></b>			
Male	14.23	14	98
Female	9.48	8	84
Total	23.71	22	93
<b><u>Larynx</u></b>			
Male	8.06	7	87
Female	2.14	2	NC*
Total	10.20	9	88
<b><u>Leukemia</u></b>			
Male	11.59	10	86
Female	9.66	6	62
Total	21.24	16	75
<b><u>Liver and Intrahepatic Bile Ducts</u></b>			
Male	5.52	6	109
Female	2.49	1	NC*
Total	8.01	7	87
<b><u>Lung and Bronchus</u></b>			
Male	75.45	71	94
Female	64.89	59	91
Total	140.35	130	93

Total	29.82	9	30 ^-
<b><u>Multiple Myeloma</u></b>			
Male	4.65	0	NC*
Female	4.41	6	136
Total	9.06	6	66
<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	19.86	6	30 ^-
Female	18.98	18	95
Total	38.84	24	62 #-
<b><u>Oral Cavity and Pharynx</u></b>			
Male	15.08	15	99
Female	7.77	7	90
Total	22.85	22	96
<b><u>Ovary</u></b>			
Female	18.40	16	87
<b><u>Pancreas</u></b>			
Male	9.99	9	90
Female	11.40	7	61
Total	21.39	16	75
<b><u>Prostate</u></b>			
Male	147.40	130	88
<b><u>Stomach</u></b>			
Male	10.02	15	150
Female	6.75	5	74
Total	16.78	20	119
<b><u>Testis</u></b>			
Male	6.46	8	124
<b><u>Thyroid</u></b>			
Male	3.43	2	NC*
Female	9.58	5	52
Total	13.01	7	54
<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Female	29.88	26	87
<b><u>All Sites / Types</u></b>			
Male	485.39	432	89 #-
Female	496.01	429	86 ~-
Total	981.40	861	88 ^-

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Leverett

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	1.29	2	NC*	Male	0.95	2	NC*
Female	0.41	1	NC*	Female	0.68	0	NC*
Total	1.70	3	NC*	Total	1.63	2	NC*
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	0.42	0	NC*	Male	0.27	0	NC*
Female	0.31	1	NC*	Female	0.21	0	NC*
Total	0.73	1	NC*	Total	0.47	0	NC*
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	0.06	0	NC*	Male	1.12	1	NC*
Female	8.27	12	145	Female	0.86	2	NC*
Total	8.34	12	144	Total	1.98	3	NC*
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
Female	0.48	0	NC*	Male	0.94	0	NC*
				Female	0.39	0	NC*
				Total	1.33	0	NC*
<b><u>Colon / Rectum</u></b>				<b><u>Ovary</u></b>			
Male	3.23	1	NC*	Female	0.96	4	NC*
Female	2.59	3	NC*				
Total	5.82	4	NC*				
<b><u>Esophagus</u></b>				<b><u>Pancreas</u></b>			
Male	0.51	0	NC*	Male	0.57	0	NC*
Female	0.12	0	NC*	Female	0.48	1	NC*
Total	0.64	0	NC*	Total	1.05	1	NC*
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			
Male	0.20	0	NC*	Male	8.41	1	NC*
Female	0.15	0	NC*				
Total	0.35	0	NC*				
<b><u>Kidney and Renal Pelvis</u></b>				<b><u>Stomach</u></b>			
Male	0.85	0	NC*	Male	0.57	0	NC*
Female	0.46	0	NC*	Female	0.28	0	NC*
Total	1.31	0	NC*	Total	0.85	0	NC*
<b><u>Larynx</u></b>				<b><u>Testis</u></b>			
Male	0.49	0	NC*	Male	0.29	0	NC*
Female	0.11	0	NC*				
Total	0.61	0	NC*				
<b><u>Leukemia</u></b>				<b><u>Thyroid</u></b>			
Male	0.63	0	NC*	Male	0.20	0	NC*
Female	0.44	0	NC*	Female	0.49	0	NC*
Total	1.08	0	NC*	Total	0.68	0	NC*
<b><u>Liver and Intrahepatic Bile Ducts</u></b>				<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Male	0.33	0	NC*	Female	1.62	0	NC*
Female	0.11	0	NC*				
Total	0.44	0	NC*				
<b><u>Lung and Bronchus</u></b>				<b><u>All Sites / Types</u></b>			

Male	4.21	1	NC*	Male	27.36	10	37 ^-
Female	3.10	1	NC*	Female	24.11	26	108
Total	7.31	2	NC*	Total	51.47	36	70 #-

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Lexington

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	25.44	17	67	Male	16.32	14	86
Female	9.85	14	142	Female	12.36	14	113
Total	35.29	31	88	Total	28.68	28	98
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	7.04	13	185	Male	4.98	5	100
Female	5.75	2	NC*	Female	4.46	6	135
Total	12.79	15	117	Total	9.44	11	117
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	1.20	0	NC*	Male	19.57	18	92
Female	156.35	166	106	Female	18.23	14	77
Total	157.54	166	105	Total	37.81	32	85
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
Female	7.97	4	NC*	Male	15.79	6	38 ~-
				Female	7.79	6	77
				Total	23.57	12	51 #-
<b><u>Colon / Rectum</u></b>				<b><u>Ovary</u></b>			
Male	63.26	58	92	Female	17.87	17	95
Female	61.42	48	78				
Total	124.68	106	85				
<b><u>Esophagus</u></b>				<b><u>Pancreas</u></b>			
Male	9.26	3	NC*	Male	10.74	8	75
Female	3.01	1	NC*	Female	11.43	10	88
Total	12.27	4	NC*	Total	22.16	18	81
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			
Male	3.12	2	NC*	Male	162.33	187	115
Female	2.44	1	NC*				
Total	5.55	3	NC*				
<b><u>Kidney and Renal Pelvis</u></b>				<b><u>Stomach</u></b>			
Male	14.84	11	74	Male	10.68	4	NC*
Female	9.49	11	116	Female	6.63	4	NC*
Total	24.33	22	90	Total	17.31	8	46 #-
<b><u>Larynx</u></b>				<b><u>Testis</u></b>			
Male	8.69	1	NC*	Male	4.24	3	NC*

Female	2.24	2	NC*
Total	10.93	3	NC*

#### Leukemia

Male	11.37	11	97
Female	9.14	14	153
Total	20.51	25	122

#### Liver and Intrahepatic Bile Ducts

Male	5.80	4	NC*
Female	2.48	1	NC*
Total	8.28	5	60

#### Lung and Bronchus

Male	81.58	55	67 ~-
Female	65.94	51	77
Total	147.52	106	72 ^-

#### Thyroid

Male	3.02	2	NC*
Female	7.76	11	142
Total	10.78	13	121

#### Uteri, Corpus and Uterus, NOS

Female	30.86	32	104
--------	-------	----	-----

#### All Sites / Types

Male	512.52	445	87 ~-
Female	488.71	455	93
Total	1001.22	900	90 ~-

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Leyden

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Bladder, Urinary</u>			
Male	0.44	2	NC*
Female	0.13	0	NC*
Total	0.57	2	NC*

#### Brain and Other Central Nervous System

Male	0.15	0	NC*
Female	0.10	0	NC*
Total	0.25	0	NC*

#### Breast

Male	0.02	0	NC*
Female	2.55	4	NC*
Total	2.58	4	NC*

#### Cervix Uteri

Female	0.16	0	NC*
--------	------	---	-----

#### Colon / Rectum

Male	1.10	0	NC*
Female	0.83	0	NC*
Total	1.93	0	NC*

#### Esophagus

Male	0.18	0	NC*
Female	0.04	0	NC*

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<u>Melanoma of Skin</u>			
Male	0.33	0	NC*
Female	0.22	0	NC*
Total	0.54	0	NC*

#### Multiple Myeloma

Male	0.09	1	NC*
Female	0.06	0	NC*
Total	0.16	1	NC*

#### Non-Hodgkin(s) Lymphoma

Male	0.38	0	NC*
Female	0.28	0	NC*
Total	0.66	0	NC*

#### Oral Cavity and Pharynx

Male	0.33	0	NC*
Female	0.12	0	NC*
Total	0.45	0	NC*

#### Ovary

Female	0.30	0	NC*
--------	------	---	-----

#### Pancreas

Male	0.20	1	NC*
Female	0.15	0	NC*

Total	0.22	0	NC*	Total	0.35	1	NC*
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			
Male	0.07	0	NC*	Male	3.00	2	NC*
Female	0.05	0	NC*				
Total	0.12	0	NC*				
<b><u>Kidney and Renal Pelvis</u></b>				<b><u>Stomach</u></b>			
Male	0.30	1	NC*	Male	0.19	0	NC*
Female	0.14	0	NC*	Female	0.09	0	NC*
Total	0.44	1	NC*	Total	0.28	0	NC*
<b><u>Larynx</u></b>				<b><u>Testis</u></b>			
Male	0.17	0	NC*	Male	0.09	0	NC*
Female	0.03	0	NC*				
Total	0.21	0	NC*				
<b><u>Leukemia</u></b>				<b><u>Thyroid</u></b>			
Male	0.22	0	NC*	Male	0.07	0	NC*
Female	0.14	0	NC*	Female	0.16	2	NC*
Total	0.37	0	NC*	Total	0.23	2	NC*
<b><u>Liver and Intrahepatic Bile Ducts</u></b>				<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Male	0.11	0	NC*				
Female	0.03	0	NC*	Female	0.49	0	NC*
Total	0.15	0	NC*				
<b><u>Lung and Bronchus</u></b>				<b><u>All Sites / Types</u></b>			
Male	1.48	0	NC*	Male	9.53	7	73
Female	0.96	1	NC*	Female	7.56	7	93
Total	2.44	1	NC*	Total	17.10	14	82

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Lincoln

### Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	5.03	4	NC*	Male	3.66	5	137
Female	1.66	3	NC*	Female	2.75	2	NC*
Total	6.70	7	105	Total	6.41	7	109
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	1.69	1	NC*	Male	1.02	0	NC*
Female	1.29	1	NC*	Female	0.81	0	NC*
Total	2.98	2	NC*	Total	1.83	0	NC*
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	0.25	0	NC*	Male	4.35	4	NC*
Female	32.22	31	96	Female	3.50	3	NC*
Total	32.47	31	95	Total	7.85	7	89



**Cervix Uteri**

Female	2.00	1	NC*
--------	------	---	-----

**Colon / Rectum**

Male	12.67	7	55
Female	10.36	7	68
Total	23.03	14	61

**Esophagus**

Male	1.95	1	NC*
Female	0.50	0	NC*
Total	2.45	1	NC*

**Hodgkin's Disease (Hodgkin Lymphoma)**

Male	0.86	1	NC*
Female	0.68	0	NC*
Total	1.54	1	NC*

**Kidney and Renal Pelvis**

Male	3.22	0	NC*
Female	1.83	1	NC*
Total	5.05	1	NC*

**Larynx**

Male	1.86	1	NC*
Female	0.44	0	NC*
Total	2.30	1	NC*

**Leukemia**

Male	2.50	3	NC*
Female	1.82	3	NC*
Total	4.33	6	139

**Liver and Intrahepatic Bile Ducts**

Male	1.25	0	NC*
Female	0.44	0	NC*
Total	1.69	0	NC*

**Lung and Bronchus**

Male	16.63	8	48 #-
Female	12.28	5	41 #-
Total	28.91	13	45 ~-

**Oral Cavity and Pharynx**

Male	3.50	3	NC*
Female	1.51	1	NC*
Total	5.02	4	NC*

**Ovary**

Female	3.80	3	NC*
--------	------	---	-----

**Pancreas**

Male	2.19	1	NC*
Female	1.93	5	259
Total	4.12	6	145

**Prostate**

Male	33.11	43	130
------	-------	----	-----

**Stomach**

Male	2.16	2	NC*
Female	1.12	0	NC*
Total	3.28	2	NC*

**Testis**

Male	1.33	2	NC*
------	------	---	-----

**Thyroid**

Male	0.77	1	NC*
Female	2.08	3	NC*
Total	2.86	4	NC*

**Uteri, Corpus and Uterus, NOS**

Female	6.21	8	129
--------	------	---	-----

**All Sites / Types**

Male	107.10	90	84
Female	95.63	82	86
Total	202.73	172	85 #-

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

**Littleton**

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

<u>Bladder, Urinary</u>	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>	<u>Melanoma of Skin</u>	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
-------------------------	------------	------------	------------	-------------------------	------------	------------	------------

Male	4.45	2	NC*	Male	3.20	0	NC*
Female	1.68	1	NC*	Female	2.51	2	NC*
Total	6.13	3	NC*	Total	5.71	2	NC*
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	1.47	3	NC*	Male	0.90	0	NC*
Female	1.18	1	NC*	Female	0.78	1	NC*
Total	2.65	4	NC*	Total	1.68	1	NC*
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	0.22	0	NC*	Male	3.81	5	131
Female	29.61	37	125	Female	3.33	5	150
Total	29.82	37	124	Total	7.14	10	140
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
Female	1.76	4	NC*	Male	3.08	3	NC*
<b><u>Colon / Rectum</u></b>				Female	1.43	1	NC*
Male	11.18	9	81	Total	4.50	4	NC*
Female	10.48	15	143	<b><u>Ovary</u></b>			
Total	21.66	24	111	Female	3.47	4	NC*
<b><u>Esophagus</u></b>				<b><u>Pancreas</u></b>			
Male	1.71	1	NC*	Male	1.94	3	NC*
Female	0.51	1	NC*	Female	1.93	3	NC*
Total	2.22	2	NC*	Total	3.86	6	155
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			
Male	0.74	0	NC*	Male	29.11	25	86
Female	0.60	1	NC*	<b><u>Stomach</u></b>			
Total	1.34	1	NC*	Male	1.92	2	NC*
<b><u>Kidney and Renal Pelvis</u></b>				Female	1.14	1	NC*
Male	2.83	6	212	Total	3.06	3	NC*
Female	1.72	2	NC*	<b><u>Testis</u></b>			
Total	4.54	8	176	Male	1.12	2	NC*
<b><u>Larynx</u></b>				<b><u>Thyroid</u></b>			
Male	1.64	1	NC*	Male	0.67	1	NC*
Female	0.40	1	NC*	Female	1.82	2	NC*
Total	2.04	2	NC*	Total	2.49	3	NC*
<b><u>Leukemia</u></b>				<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Male	2.21	1	NC*	Female	5.68	4	NC*
Female	1.76	3	NC*	<b><u>All Sites / Types</u></b>			
Total	3.97	4	NC*	Male	94.12	86	91
<b><u>Liver and Intrahepatic Bile Ducts</u></b>				Female	90.07	109	121
Male	1.10	0	NC*	Total	184.19	195	106
Female	0.43	0	NC*				
Total	1.53	0	NC*				
<b><u>Lung and Bronchus</u></b>							
Male	14.61	17	116				
Female	11.50	13	113				
Total	26.11	30	115				

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Longmeadow

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	12.90	6	47	Male	8.21	13	158
Female	4.53	4	NC*	Female	5.86	5	85
Total	17.44	10	57	Total	14.07	18	128
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	3.52	3	NC*	Male	2.54	0	NC*
Female	2.78	4	NC*	Female	2.11	2	NC*
Total	6.30	7	111	Total	4.65	2	NC*
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	0.61	0	NC*	Male	9.82	7	71
Female	75.15	77	102	Female	8.56	8	93
Total	75.76	77	102	Total	18.39	15	82
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
Female	3.76	4	NC*	Male	8.04	5	62
				Female	3.70	3	NC*
				Total	11.74	8	68
<b><u>Colon / Rectum</u></b>				<b><u>Ovary</u></b>			
Male	32.02	25	78	Female	8.58	13	152
Female	28.31	28	99				
Total	60.33	53	88				
<b><u>Esophagus</u></b>				<b><u>Pancreas</u></b>			
Male	4.71	3	NC*	Male	5.44	4	NC*
Female	1.38	3	NC*	Female	5.26	7	133
Total	6.09	6	98	Total	10.70	11	103
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			
Male	1.47	1	NC*	Male	82.07	84	102
Female	1.13	0	NC*				
Total	2.60	1	NC*				
<b><u>Kidney and Renal Pelvis</u></b>				<b><u>Stomach</u></b>			
Male	7.57	7	92	Male	5.41	5	92
Female	4.51	4	NC*	Female	3.02	3	NC*
Total	12.08	11	91	Total	8.43	8	95
<b><u>Larynx</u></b>				<b><u>Testis</u></b>			
Male	4.43	2	NC*	Male	1.87	3	NC*
Female	1.08	0	NC*				
Total	5.51	2	NC*				
<b><u>Leukemia</u></b>				<b><u>Thyroid</u></b>			
Male	5.75	4	NC*	Male	1.48	5	339 #+
Female	4.33	5	115	Female	3.65	3	NC*
Total	10.08	9	89	Total	5.13	8	156
<b><u>Liver and Intrahepatic Bile Ducts</u></b>				<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Male	2.95	1	NC*	Female	14.98	15	100
Female	1.16	0	NC*				

Total	4.10	1	NC*
<b><u>Lung and Bronchus</u></b>			
Male	41.32	16	39 ^-
Female	31.41	25	80
Total	72.73	41	56 ^-

**All Sites / Types**

Male	258.87	206	80 ^-
Female	231.64	231	100
Total	490.51	437	89 #-

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Lowell

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>			
Male	49.50	62	125
Female	22.71	28	123
Total	72.21	90	125 #+

**Brain and Other Central Nervous System**

Male	17.13	16	93
Female	15.22	15	99
Total	32.35	31	96

**Breast**

Male	2.34	1	NC*
Female	352.63	296	84 ~-
Total	354.97	297	84 ~-

**Cervix Uteri**

Female	21.79	33	151 #+
--------	-------	----	--------

**Colon / Rectum**

Male	123.50	132	107
Female	143.17	162	113
Total	266.67	294	110

**Esophagus**

Male	17.63	30	170 ~+
Female	6.95	7	101
Total	24.57	37	151 #+

**Hodgkin's Disease (Hodgkin Lymphoma)**

Male	10.09	7	69
Female	8.20	9	110
Total	18.30	16	87

**Kidney and Renal Pelvis**

Male	29.89	30	100
Female	21.61	35	162 #+
Total	51.50	65	126

**Melanoma of Skin**

Male	35.54	14	39 ^-
Female	31.12	15	48 ~-
Total	66.66	29	44 ^-

**Multiple Myeloma**

Male	9.62	10	104
Female	10.01	11	110
Total	19.63	21	107

**Non-Hodgkin('s) Lymphoma**

Male	43.56	40	92
Female	43.90	37	84
Total	87.46	77	88

**Oral Cavity and Pharynx**

Male	31.60	63	199 ^+
Female	17.65	16	91
Total	49.25	79	160 ^+

**Ovary**

Female	41.96	27	64 #-
--------	-------	----	-------

**Pancreas**

Male	20.80	23	111
Female	26.19	28	107
Total	46.99	51	109

**Prostate**

Male	301.26	229	76 ^-
------	--------	-----	-------

**Stomach**

Male	21.04	17	81
Female	15.66	15	96
Total	36.69	32	87

**Larynx**

Male	16.56	31	187 ~+
Female	4.76	7	147
Total	21.32	38	178 ~+

**Leukemia**

Male	25.70	29	113
Female	22.84	17	74
Total	48.54	46	95

**Liver and Intrahepatic Bile Ducts**

Male	11.57	21	182 #+
Female	5.74	10	174
Total	17.31	31	179 ~+

**Lung and Bronchus**

Male	155.81	215	138 ^+
Female	146.65	166	113
Total	302.46	381	126 ^+

**Testis**

Male	16.93	12	71
------	-------	----	----

**Thyroid**

Male	7.93	2	NC*
Female	22.96	16	70
Total	30.89	18	58 #-

**Uteri, Corpus and Uterus, NOS**

Female	66.50	66	99
--------	-------	----	----

**All Sites / Types**

Male	1020.27	1091	107 #+
Female	1132.56	1101	97
Total	2152.83	2192	102

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

**Ludlow**

**Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999**

	<b><u>Exp</u></b>	<b><u>Obs</u></b>	<b><u>SIR</u></b>		<b><u>Exp</u></b>	<b><u>Obs</u></b>	<b><u>SIR</u></b>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	13.78	16	116	Male	8.84	6	68
Female	5.27	6	114	Female	6.64	7	105
Total	19.05	22	116	Total	15.48	13	84
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	3.88	3	NC*	Male	2.66	3	NC*
Female	3.21	4	NC*	Female	2.38	1	NC*
Total	7.09	7	99	Total	5.04	4	NC*
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	0.64	0	NC*	Male	10.73	15	140
Female	81.41	70	86	Female	9.94	9	91
Total	82.05	70	85	Total	20.67	24	116
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
Female	4.38	4	NC*	Male	8.22	4	NC*
				Female	4.08	1	NC*
				Total	12.31	5	41 #-
<b><u>Colon / Rectum</u></b>				<b><u>Ovary</u></b>			
Male	34.06	53	156 ~+	Female	9.45	8	85
Female	33.13	32	97				
Total	67.19	85	126 #+				

<b><u>Esophagus</u></b>				<b><u>Pancreas</u></b>			
Male	4.81	0	NC*	Male	5.69	2	NC*
Female	1.61	1	NC*	Female	6.13	5	82
Total	6.42	1	NC*	Total	11.82	7	59
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			
Male	1.88	4	NC*	Male	83.78	88	105
Female	1.47	0	NC*				
Total	3.35	4	NC*				
<b><u>Kidney and Renal Pelvis</u></b>				<b><u>Stomach</u></b>			
Male	7.88	15	190 #+	Male	5.74	5	87
Female	5.04	2	NC*	Female	3.53	3	NC*
Total	12.92	17	132	Total	9.27	8	86
<b><u>Larynx</u></b>				<b><u>Testis</u></b>			
Male	4.48	4	NC*	Male	2.78	1	NC*
Female	1.17	0	NC*				
Total	5.65	4	NC*				
<b><u>Leukemia</u></b>				<b><u>Thyroid</u></b>			
Male	6.31	5	79	Male	1.68	2	NC*
Female	4.90	5	102	Female	4.38	3	NC*
Total	11.21	10	89	Total	6.06	5	83
<b><u>Liver and Intrahepatic Bile Ducts</u></b>				<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Male	3.05	1	NC*				
Female	1.33	0	NC*	Female	15.95	25	157 #+
Total	4.38	1	NC*				
<b><u>Lung and Bronchus</u></b>				<b><u>All Sites / Types</u></b>			
Male	43.06	44	102	Male	272.36	282	104
Female	35.44	32	90	Female	259.72	242	93
Total	78.50	76	97	Total	532.07	524	98

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Lunenburg

Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	6.27	13	207 #+	Male	4.31	4	NC*
Female	2.22	5	226	Female	3.11	0	NC*
Total	8.48	18	212 ~+	Total	7.43	4	NC*
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	1.93	3	NC*	Male	1.26	1	NC*
Female	1.48	3	NC*	Female	1.04	0	NC*
Total	3.41	6	176	Total	2.30	1	NC*
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			

Male	0.30	0	NC*
Female	38.14	45	118
Total	38.44	45	117

#### Cervix Uteri

Female	2.12	3	NC*
--------	------	---	-----

#### Colon / Rectum

Male	15.63	14	90
Female	13.87	20	144
Total	29.51	34	115

#### Esophagus

Male	2.34	0	NC*
Female	0.67	0	NC*
Total	3.01	0	NC*

#### Hodgkin's Disease (Hodgkin Lymphoma)

Male	0.93	0	NC*
Female	0.69	0	NC*
Total	1.61	0	NC*

#### Kidney and Renal Pelvis

Male	3.86	3	NC*
Female	2.25	2	NC*
Total	6.12	5	82

#### Larynx

Male	2.22	2	NC*
Female	0.54	0	NC*
Total	2.76	2	NC*

#### Leukemia

Male	2.99	3	NC*
Female	2.21	3	NC*
Total	5.20	6	115

#### Liver and Intrahepatic Bile Ducts

Male	1.49	2	NC*
Female	0.57	1	NC*
Total	2.06	3	NC*

#### Lung and Bronchus

Male	20.28	19	94
Female	15.52	14	90
Total	35.80	33	92

Male	5.14	3	NC*
Female	4.34	4	NC*
Total	9.49	7	74

#### Oral Cavity and Pharynx

Male	4.13	2	NC*
Female	1.85	0	NC*
Total	5.99	2	NC*

#### Ovary

Female	4.42	3	NC*
--------	------	---	-----

#### Pancreas

Male	2.67	0	NC*
Female	2.57	2	NC*
Total	5.24	2	NC*

#### Prostate

Male	39.97	31	78
------	-------	----	----

#### Stomach

Male	2.66	4	NC*
Female	1.48	0	NC*
Total	4.14	4	NC*

#### Testis

Male	1.37	1	NC*
------	------	---	-----

#### Thyroid

Male	0.86	1	NC*
Female	2.13	3	NC*
Total	2.99	4	NC*

#### Uteri, Corpus and Uterus, NOS

Female	7.47	7	94
--------	------	---	----

#### All Sites / Types

Male	129.17	113	87
Female	116.88	118	101
Total	246.04	231	94

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

**Lynn**

**Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999**

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>			
Male	49.82	59	118
Female	22.59	32	142
Total	72.41	91	126 #+
<b><u>Brain and Other Central Nervous System</u></b>			
Male	14.81	17	115
Female	13.50	10	74
Total	28.31	27	95
<b><u>Breast</u></b>			
Male	2.29	2	NC*
Female	328.90	323	98
Total	331.19	325	98
<b><u>Cervix Uteri</u></b>			
Female	18.56	22	119
<b><u>Colon / Rectum</u></b>			
Male	122.90	167	136 ^+
Female	142.38	140	98
Total	265.29	307	116 #+
<b><u>Esophagus</u></b>			
Male	17.10	19	111
Female	6.93	3	NC*
Total	24.02	22	92
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>			
Male	7.78	10	129
Female	6.68	2	NC*
Total	14.46	12	83
<b><u>Kidney and Renal Pelvis</u></b>			
Male	28.33	28	99
Female	20.52	24	117
Total	48.86	52	106
<b><u>Larynx</u></b>			
Male	15.82	23	145
Female	4.50	4	NC*
Total	20.32	27	133
<b><u>Leukemia</u></b>			
Male	23.80	22	92
Female	21.39	23	108
Total	45.19	45	100
<b><u>Liver and Intrahepatic Bile Ducts</u></b>			
Male	10.96	20	182 #+
Female	5.62	9	160
Total	16.58	29	175 ~+
<b><u>Lung and Bronchus</u></b>			
Male	152.90	195	128 ~+
Female	140.58	177	126 ~+
Total	293.48	372	127 ^+

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Melanoma of Skin</u></b>			
Male	32.52	25	77
Female	27.98	24	86
Total	60.50	49	81
<b><u>Multiple Myeloma</u></b>			
Male	9.52	10	105
Female	9.77	17	174 #+
Total	19.29	27	140
<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	39.94	54	135 #+
Female	41.57	49	118
Total	81.51	103	126 #+
<b><u>Oral Cavity and Pharynx</u></b>			
Male	29.52	41	139
Female	16.80	21	125
Total	46.31	62	134 #+
<b><u>Ovary</u></b>			
Female	38.49	40	104
<b><u>Pancreas</u></b>			
Male	20.50	28	137
Female	25.95	24	92
Total	46.45	52	112
<b><u>Prostate</u></b>			
Male	294.77	314	107
<b><u>Stomach</u></b>			
Male	20.87	35	168 ~+
Female	15.58	22	141
Total	36.45	57	156 ~+
<b><u>Testis</u></b>			
Male	12.06	14	116
<b><u>Thyroid</u></b>			
Male	6.47	1	NC*
Female	18.98	15	79
Total	25.45	16	63
<b><u>Uteri, Corpus and Uterus, NOS</u></b>			
Female	62.76	72	115
<b><u>All Sites / Types</u></b>			
Male	981.02	1163	119 ^+
Female	1071.95	1163	108 ~+
Total	2052.97	2326	113 ^+

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]



\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels

## Lynnfield

### Expected and Observed Case Counts, with Standardized Incidence Ratios, 1995 - 1999

	<u>Exp</u>	<u>Obs</u>	<u>SIR</u>		<u>Exp</u>	<u>Obs</u>	<u>SIR</u>
<b><u>Bladder, Urinary</u></b>				<b><u>Melanoma of Skin</u></b>			
Male	10.11	13	129	Male	6.42	14	218 #+
Female	3.40	1	NC*	Female	4.46	11	247 #+
Total	13.51	14	104	Total	10.88	25	230 ^+
<b><u>Brain and Other Central Nervous System</u></b>				<b><u>Multiple Myeloma</u></b>			
Male	2.75	3	NC*	Male	1.98	2	NC*
Female	2.09	2	NC*	Female	1.58	3	NC*
Total	4.84	5	103	Total	3.56	5	140
<b><u>Breast</u></b>				<b><u>Non-Hodgkin('s) Lymphoma</u></b>			
Male	0.48	1	NC*	Male	7.70	8	104
Female	56.34	59	105	Female	6.47	13	201 #+
Total	56.81	60	106	Total	14.17	21	148
<b><u>Cervix Uteri</u></b>				<b><u>Oral Cavity and Pharynx</u></b>			
Female	2.92	3	NC*	Male	6.20	1	NC*
				Female	2.77	1	NC*
				Total	8.96	2	NC*
<b><u>Colon / Rectum</u></b>				<b><u>Ovary</u></b>			
Male	25.08	35	140	Female	6.46	5	77
Female	21.28	23	108				
Total	46.35	58	125				
<b><u>Esophagus</u></b>				<b><u>Pancreas</u></b>			
Male	3.64	4	NC*	Male	4.23	3	NC*
Female	1.04	0	NC*	Female	3.96	4	NC*
Total	4.68	4	NC*	Total	8.19	7	85
<b><u>Hodgkin's Disease (Hodgkin Lymphoma)</u></b>				<b><u>Prostate</u></b>			
Male	1.19	1	NC*	Male	63.73	76	119
Female	0.89	1	NC*				
Total	2.09	2	NC*				
<b><u>Kidney and Renal Pelvis</u></b>				<b><u>Stomach</u></b>			
Male	5.87	4	NC*	Male	4.22	2	NC*
Female	3.38	4	NC*	Female	2.27	2	NC*
Total	9.25	8	86	Total	6.49	4	NC*
<b><u>Larynx</u></b>				<b><u>Testis</u></b>			
Male	3.42	2	NC*	Male	1.60	1	NC*
Female	0.81	0	NC*				
Total	4.23	2	NC*				
<b><u>Leukemia</u></b>				<b><u>Thyroid</u></b>			
Male	4.49	4	NC*	Male	1.17	1	NC*
Female	3.21	4	NC*	Female	2.86	0	NC*
Total	7.71	8	104	Total	4.03	1	NC*

**Liver and Intrahepatic Bile Ducts**

Male	2.28	0	NC*
Female	0.87	0	NC*
Total	3.15	0	NC*

**Lung and Bronchus**

Male	32.24	32	99
Female	23.62	18	76
Total	55.86	50	90

**Uteri, Corpus and Uterus, NOS**

Female	11.16	10	90
--------	-------	----	----

**All Sites / Types**

Male	201.96	222	110
Female	174.11	179	103
Total	376.07	401	107

**Exp** = expected case count, based on the Massachusetts average age-specific incidence rates for this cancer

**Obs** = observed case count

**SIR** = standardized incidence ratio [ (**Obs** / **Exp**) X 100 ]

\* = **SIR** and statistical significance not calculated when **Obs** < 5

+ indicates number of observed cases is statistically significantly higher than the expected number of cases

- indicates number of observed cases is statistically significantly lower than the expected number of cases

# indicates statistical significance at the  $p \leq 0.05$  level

~ indicates statistical significance at the  $p \leq 0.01$  level, as well as at the  $p \leq 0.05$  level

^ indicates statistical significance at the  $p \leq 0.001$  level, as well as at the  $p \leq 0.05$  and  $p \leq 0.01$  levels